

ABSTRACT OF THE DISCLOSURE

A method for arithmetic performance attribution which accurately links single-period attribution effects over multiple periods. In preferred embodiments, the method determines portfolio relative performance over multiple time periods ($t = 1, 2, \dots, T$) as a

5 sum of terms of form $R - \bar{R} = \sum_{it} [c_1 a_{it} + c_2 a_{it}^2]$, where a_{it} is a component of active return

for period t , the summation over index i is a summation over all components a_i for

period t , R is $R = [\prod_{t=1}^T (1 + R_t)] - 1$, \bar{R} is $\bar{R} = [\prod_{t=1}^T (1 + \bar{R}_t)] - 1$, R_t is a portfolio return

for period t , \bar{R}_t is a benchmark return for period t , and the coefficients c_1 and c_2 are

$$c_1 = A, \text{ and } c_2 = \frac{R - \bar{R} - A \sum_{jt} a_{jt}}{\sum_{jt} a_{jt}^2}. \text{ More generally, the invention is an arithmetic}$$

10 method for determining portfolio relative performance over multiple time periods

($t=1,2,...,T$) as a sum of terms of form: $R - \bar{R} = \sum_{it} \sum_{k=1}^{\infty} c_k a_{it}^k$, where a_{it} is a component

of active return for period t . In preferred quadratic implementations (in which the only nonzero coefficients c_k are those for which $k = 1$ or $k = 2$), the coefficients c_1 and c_2 are defined as in the above-mentioned preferred embodiments. In all embodiments, the

15 method of the invention is metric preserving at the component portfolio level. Other aspects of the invention are a computer system programmed to perform any embodiment of the inventive method, and a computer readable medium which stores code for implementing any embodiment of the inventive method.